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2. An integrated paper of claim 1 wherein said fibrillated fibers comprise Lyocell.
3. An integrated paper of claim 2 wherein the Lyocell has an average fiber diameter of less than about 400 nm.
4. An integrated paper of claim 1 wherein said active agents have an average particle size of less than or equal to about 1 μ to about 5000 μ .
5. An integrated paper of claim 1 wherein the average diameter of said fibrillated fibers is less than an average particle size of said active agents.
6. An integrated paper of claim 1 further including binder fibers or particles.
7. An integrated paper of claim 1 wherein said fibrillated fibers and said active agents have different settling velocities such that said integrated paper has an asymmetric structure when formed by wet-laid processes.
8. (Amended) An integrated paper of claim 1 further including a microbiological intercept ion enhancing agent comprising a cationic material having a counter ion associated therewith when exposed to an aqueous biologically active metal salt solution forms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at least some of the nanofibers and/or active agent.
9. An integrated paper comprising of:
a plurality of fibers fibrillated at a temperature greater than about 30°C, wherein said fibrillated fibers have an average fiber diameter of less than about 400 nm; and silver oxide particles admixed with said fibrillated fibers.
10. An integrated paper of claim 9 wherein the fibrillated fibers comprise a liquid crystal polymer.
11. (Amended) An integrated paper comprising of:
a plurality of fibers fibrillated at a temperature greater than about 30°C, wherein said fibers have an average fiber diameter of less than about 400 nm; and

one or more acid neutralizing agents admixed with said
fibrillated fibers;

wherein said integrated paper can withstand a hot and corrosive environment of a lube oil
filter and wherein said one or more acid neutralizing agents comprises magnesium
oxide, magnesium hydroxide, calcium sulfonate, magnesium sulfonate, calcium
phenate, magnesium phenate, or combinations thereof.

12. An integrated paper of claim 11 further including binder fibers or particles.

13. (Cancelled) An integrated paper of claim 11 wherein said one or more acid
neutralizing agents comprises magnesium oxide, magnesium hydroxide,
calcium sulfonate, magnesium sulfonate, calcium phenate, magnesium

phenate, or combinations thereof comprising a cationic material having a counter ion
associated therewith when exposed to an aqueous biologically active metal salt solution for
ms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at
least some of the nanofibers and/or active agents.

14. An integrated paper comprising of:

a plurality of lyocell fibers fibrillated at a temperature greater
than about 30°C, wherein said fibrillated lyocell fibers have an average
fiber diameter of less than or equal to about 400 nm; and
activated carbon particles admixed with said fibrillated lyocell
fibers, wherein said integrated paper has a mean flow path of less than
about 2 μ .

15. (Currently amended) An integrated paper of claim 14 further including a
microbiological interception enhancing agent comprising a cationic material having a
counter ion associated therewith when exposed to an aqueous biologically active metal salt
solution forms the colloidal metal precipitate that precipitates onto at least a portion of
the surface of at least some of the nanofibers and/or active agents.

16. An integrated paper of claim 14 further including a heavy metal
reducing agent.

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17. An integrated paper of claim 16 wherein the heavy metal reduction agent comprises particles of zeolite, silicate, or combinations thereof.
18. An integrated paper of claim 14 further including an arsenic reducing agent.
19. An integrated paper of claim 18 wherein the arsenic reducing agent comprises particles of iron, oxides of manganese or iron, or combinations thereof.
20. An integrated paper comprising
- a plurality of fibers having an average fiber diameter of less than about 1000 nm; and
a lead reducing agent admixed with said plurality of fibers,
wherein said integrated paper has a mean flow path of less than about 2 μ .
21. (Currently amended) An integrated paper of claim 20 further including a microbiological interception enhancing agent comprising a cationic material having a counter ion associated therewith when exposed to an aqueous biologically active metal salt solution forms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at least some of the nanofibers and/or active agents.
22. An integrated paper of claim 20 further including binder fibers or particles.
23.
(Currently amended) An integrated paper of claim 22 further including a microbiological interception enhancing agent comprising a cationic material having a counter ion associated therewith when exposed to an aqueous biologically active metal salt solution forms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at least some of the nanofibers and/or active agents.

24. (Amended) An integrated paper of claim 20 further including a carbon block, wherein said integrated paper is wrapped around the carbon block including a microbiological interception enhancing agent associated with said paper and/or said block comprising a cationic material having a counter ion associate therewith when exposed to an aqueous biologically active metal salt solution forms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at least some of the carbon block, nanofibers and/or active agents.

25. (Currently Amended) An integrated paper of claim 24 further including a microbiological interception enhancing agent comprising a cationic material having a counter ion associated therewith when exposed to an aqueous biologically active metal salt solution forms the colloidal metal precipitate that precipitates onto at least a portion of the surface of at least some of the nanofibers and/or active agents.

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